

US EPA ARCHIVE DOCUMENT

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DATA EVALUATION REPORT

ZIRAM

STUDY TYPE: PRIMARY DERMAL IRRITATION - RABBIT (81-5)

Prepared for

Health Effects Division  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Prepared by

Chemical Hazard Evaluation Group  
Toxicology and Risk Analysis Section  
Life Sciences Division  
Oak Ridge National Laboratory  
Oak Ridge, TN 37831  
Task Order No. 97-22J

Primary Reviewer:  
Susan Chang, M.S.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Secondary Reviewers:  
H. Tim Borges, M.T. (A.S.C.P.),  
Ph.D., D.A.B.T.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Robert H. Ross, M.S., Group Leader

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Quality Assurance:  
Sylvia Milanez, Ph.D., D.A.B.T.

Signature: \_\_\_\_\_

Date: . \_\_\_\_\_

Disclaimer

This review may have been altered subsequent to the contractor's signatures above.

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Oak Ridge National Laboratory, managed by Lockheed Martin Energy Research Corp. for the U.S. Department of Energy under contract number DE-AC05-96OR22464.

ZIRAM

Primary Dermal Irritation Study (OPP 81-5; OPPTS 870.2500)

EPA Reviewer: Virginia A. Dobozy, V.M.D, M.P.H., \_\_\_\_\_ Date \_\_\_\_\_

Reregistration Branch 1 (7509C)

Whang Phang, Ph.D., Branch Senior Scientist, \_\_\_\_\_ Date \_\_\_\_\_

Reregistration Branch 1 (7509C)

DATA EVALUATION RECORD

STUDY TYPE: Primary Dermal Irritation - Rabbit  
OPPTS 870.2500 [§81-5]

DP BARCODE: D235025

P.C. CODE: 034805

SUBMISSION CODE: S521512

TOX. CHEM. NO.: 931

TEST MATERIAL (PURITY): Ziram 76% WG (77.2%)

SYNONYMS: Zinc dimethyldithiocarbamate

CITATION: Liggett, M. (1990) Skin irritation to rabbits with Ziram 76% WG. Huntingdon Research Centre Ltd., P.O. Box 2, Huntingdon, Cambridgeshire, PE18 6ES, England. HRC Study Report No. 9068D/UCB 328/SE, March 15, 1990. MRID 41454602. Unpublished.

SPONSOR: UCB Chemicals Corporation, 5505 Robin Hood Road, Norfolk, VA 23513

EXECUTIVE SUMMARY: In a primary dermal irritation study (MRID 41454602) six young female adult New Zealand white rabbits were dermally exposed to 500 mg Ziram 76% WG (77.2%, Batch no. P891006) moistened with 0.5 mL distilled water for 4 hours. Animals were then observed daily for 4 days. Irritation was scored by the method of Draize.

None of the animals showed any response to treatment throughout the observation period. **Based on the results, Ziram 76% WG is not an irritant to the skin of rabbits (Toxicity Category IV).**

This study is classified as acceptable (guideline). It does satisfy the guideline requirement for a primary dermal irritation study (81-5) in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

## I. MATERIALS AND METHODS

A. MATERIALS1. Test material: Ziram 76% WG

Description: small beige granules

Lot/Batch #: P891006

Purity: 77.2% a.i.

CAS #: 137-30-4

2. Vehicle

Distilled water

3. Test animals

Species: rabbit

Strain: New Zealand White

Age and weight at dosing: ~9-12 weeks, 2.2-2.8 kg

Source: Froxfield Farms (U.K.) Ltd., Petersfield,  
Hampshire, England

Acclimation period: not given (acclimated to the  
laboratory environment)

Diet: SDS Standard Rabbit Diet, *ad libitum*

Water: tap water, *ad libitum*

Housing: individually in metal cage with a perforated floor

Environmental conditions:

Temperature: ~19°C

Humidity: 30-70%

Air changes: 19/hour

Photoperiod: 12 hour light/dark

B. STUDY DESIGN and METHODS1. In life dates

Start: October 31, 1989; end: November 3, 1989

2. Animal assignment and treatment

Six female animals were given a single 500 mg dose of Ziram 76% WG dermally applied under 2.5 cm<sup>2</sup> gauze pad to a ~10 cm<sup>2</sup> shaved site on the dorso-lumbar region. The test material was moistened with 0.5 mL distilled water and the application site covered with Elastoplast elastic adhesive dressing. The semi-occlusive dressing and gauze pads were left in place for 4 hours, at which time they were removed and the application site washed with water. The site was scored for erythema and edema according to the Draize method on Days 1 (~30 minutes after removal of the patches), 2, 3 and 4.

## II. RESULTS AND DISCUSSION

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Primary Dermal Irritation Study (OPP 81-5; OPPTS 870.2500)

- A. None of the animals showed any response to treatment throughout the observation period. Based on the results, Ziram 76% WG is not an irritant to the skin of rabbits.

- B. DEFICIENCIES

No study deficiencies were noted.

ZIRAM

Primary Dermal Irritation Study (OPP 81-5; OPPTS 870.2500)

SignOff Date:	8/2/00
DP Barcode:	D172447
HED DOC Number:	014277
Toxicology Branch:	RAB2